

Rio. Em. Sur. Manoel Duarte. Dr. Andrade, Dr. Lintz, Dr. Tomaz and I discuss proposed contract frankly. No definite conclusion reached.

Dr. Barros Barretto says Fraga is agreeable in principle to mission for investigation of Leptospirosis in north and asks for conference with ~~C~~ragao Friday. ~~C~~ragao notified.

May 3<sup>rd</sup>. Office in AM. Holiday of Brazil. Swim at Post 6 waves strong.

May 4. Conference with Dr. Decio ~~P~~ereiras on malaria. Probable easy solution of malaria situation. Pernambuco notified that he can sail in June. Visit from Dr. Guilherme Silva of malaria service of Minas Geraes.

Dr. Henrique Aragao and I visit Dr. J.B. Barretto and talk over the commission to study y.f. Dr. BB says the DNSP is ready to help. Dr. H.A. says material should be sent here for study and that he needs time to brush up on leptospira technique. He offers to buy two monkeys and start work and I authorize purchase with R.F. funds. Dr. HH promises to work out detailed plans for work of commission to be presented next Thursday when we are to have further conference.

May 5. Connor telegraphs of suspect case of y.f. in Timbamba (Pernambuco). Telephone to Borges asking for "~~prints~~" *press - Brazilian guinea pigs*

May 6. To top of Tijuca with Capt Babcock and family.

May 7. Return of lost engineer "Costa" Leite. Accountant comes to check 1927 accts.

Advise Dr. LaFayette and Dr. B. Barretto of the suspect case in Timbamba. Dr. Kerr arrived Asuncion.

May 8. Dr. Muench sails on Orania for Bahia receive wire from Connor saying nothing pos. appears in investigation of Timbamba case.

May 9. Leave card on Dr. J <sup>R</sup>Lama<sup>R</sup>tine at Hotel. Visit auto show.

May 10. Connor sails from Recife for Bahia. Dr. H. Aragao and I visit Dr. Barros Barretto and talk over plans for commission on study of icterus in Brazil. Dr. HA submits typewritten outline of problems to be studied by joined forces of C.R., DNSP, ~~S.P.~~ <sup>Ins. Os. Cr.</sup> of Bahia and Ins. Os. Cr. See Lon Chaney in Monster of the Circus.

*original  
attached  
PP-63a 63b*

May 11. Wire from NY "Connor - do not understand your letter April 24th. No doubt about diagnosis yellow fever - Case is not Weils disease Russell." Send report on commission mentioned for study to Russell and Connor.

May 12. Gerald Golden, British, from <sup>ANNA POLIS</sup> ~~Concapolis~~ Goyaz, comes to office for information regarding Hookworm and malaria. Wire from NY announces that Davis will sail June 2 to join Connor.

May 13. Sunday. Lunch with Consul G. Dawson.

May 14. Interview Latocoere to see if passage for Muench can be arranged.

Dr. Fraga has just returned from Caxambu. I discuss the yellow fever situation with him and tell him of steps already taken by Dr. Aragao. Also tell him of FFR's attitude toward Course of Hygiene in Rio and give him invitation to go to the USA. He states that action in Congress on Course can be delayed until after his trip to US even if he does not go before Sept. I also inform him that Dr. Davis will arrive in June.

May 15. Wire from N.Y. asking for "current" to be used by Davis in laboratory list of "currents" in north secured from General Electric.

Conference with Drs. Fraga and H. Aragao.

The situation of the north is discussed. Why did yellow fever disappear once and for all time in Rio, Sao Paulo and Amazon River when control measures were adopted but fails to do so in the Northeast of Brazil. All are agreed that studies must be made. D. Aragao is to work up details for conference with Davis on arrival. Also proposed to send one M. rhesus north now. Dr. Aragao is proposing many details including the examination of each town in danger zone every three months for at least a year after last suspect case.

From letter of FFR to MEC Apr. 24.

"The y.f. lesions first described by Rocha Lima which are necrosis of the midzone cells of the liver lobules are accepted by Klotz, McCallum, Darling, Callender and others as characteristic of y.f.....I might say that at the present time this lesion is the most definite and characteristic thing which we know in the diagnosis of yellow fever."

From letter of FFR to MEC Apr. 23.

"....No Leptospira have been found in Africa!"

*Curry*

1929

Letter FFR to D.W.B. Apr 28.

"...one of the most difficult problems in yellow fever control, that is, the recognition of cases so mild and atypical and so limited in number, that the diagnosis on clinical grounds alone presents great difficulties..... In Lagos, a virus has been obtained from cases so mild that a diagnosis on clinical grounds could not have been made.... mild cases may occur in adults as well as in children and young persons... As you know, the American pathologists who have studied the question are quite convinced that the lesions first described by Rocha Lima are pathognomonic of y.f. Darling while still at Panama discovered the same thing and taught it to his assistants but, so far as I know, never published anything on the subject."

Dr. Fraga's attention has been called to work in Campinã Grande and Alagôa Grande. Municipal control checked by state control should be feasible.

*McC idea*

May 16. Conference with Dr. Fraga. DF asks for use of Costa Leite in Jacarepegua for one or two months granted. I suggest that CR needs new office and that Nurses Residence would be ideal. C. F. agrees in principle but suggests that we take nursing service quarters and that Mrs. Parsons move to Residence. To this I reply that I prefer Residence office.

*Before appearance of  
Jf in Rio*

Call on Capt. R.A. Warner. See What Price Glory?

May 17. Ascension Day. No Holiday.

May 18. Dr. C.F. agrees to our occupation of Nurses Residence. Visit from James H. Roth. Rotary 221 East Cullerton St. Chicago.

Advise Mrs. Parsons that our contract with Federal Government expired April 1, 1928.

May 19. Dr. Salles Gomes, Dr. Geo. Hasselmann and Mrs. Parsons visit office almost simultaneously.

Sat. afternoon Dr. Aragao informs that tissues of Almeida, Timbaya, are positive. Later I learn of suspect case in Rio and advise Connor and NY. Late Sat. night Rocha Lima confirms both diagnoses.

Sunday 20. Wire NY and Connor of R.L. diagnoses; afternoon in hills with Mrs. Parsons Mdm LeDoux and Miss Dennhardt.

Monday 21. Wire Connor that Fraga wishes him to come to Rio for conference. Another soldier is dead but Fraga doubts if it is yellow

*see note on 5/23*

Estancia case died March 4<sup>th</sup>  
Rhina diagnosis March 28 1928  
Simbamba case ~~April~~ (MAY 5/6/28) (New)  
Rhina diagnosis May 19<sup>th</sup>  
First Soldier Rio May 16  
Rhina diagnosis May 19<sup>th</sup>  

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Second Soldier infected in Hospital  
died May 19<sup>th</sup>  
First civilian case May 31

fever.

Tuesday 22. Connor received wire in Bahia but went to Recife as planned - From Muench's station journal) Received this wire at noon and sailed that night for Recife. Authorized to move to Nurses Home from N.Y. arrangements made with Standard Oil for receipt of SP Funds.

*Alves*  
In the afternoon Dr. Tomaz and I went to Manguinhos where we received something over five contos which leaves Oswaldo Cruz owing but 3 contos and this an old account which Hydrick refused to collect by going to the treasury. We meet Dr. Magarinhos Torres who has been contracted for the medical school in Asuncion. He shows liver of Timbauba case and we get specimens of liver from the first soldier and of liver and kidney from the second soldier. Later in the afternoon Dr. Torres calls to say that liver of second case is yellow fever. N.Y. notified by cable also Connor. Newspapers carry news of death of Noguchi at Accra, Gold Coast of yellow fever. Dr. Aragao reports no new cases suspected. Drs. Fraga and LaFayette not seen because at Santa Cruz.

Wednesday 5-23. Connor wires he is enroute for Recife. Suspect case in Parahyba. Dr. Guedes Pereira also has wire about case. Together we go to Dr. LaFayette and discuss situation. Dr. LaFayette is willing for same cooperation in Fortaleza as in Natal. Dr. Alberto da Cunha is heading up stegomyia control here. Dr. Fraga sick in bed.

*Later learn MEC  
sailed from Bahia  
receiving FCS were  
of the 21*

Drs. Decio Perreiras and A. Andrade come to office to talk over Rio malaria situation and we agree on contract basis for 1928.

Quarterly report for 1st quarter mailed.

Government i.e. lower house of Congress passes motion lamenting loss of Noguchi.

Dr. Souza Pinto reports trypanosoma in blood of child at Santa Cruz.

Thursday May 24. Take citrate tubes to Dr. Aragao at Manguinhos. Consult Dr. Fraga and tell him that Russell has authorized measures in Rio if request comes from government. Fraga is doubtful about diagnosis. The available data on these two cases is now as follows: Possideon Nino, Pernambuco in Rio five months reported to hospital ill on March 14th - died March 15th. History of previous illness since January with bloody stools continuing in spite of emetine and bismuth. He became ill at the quarter at Campinho. History not very definite. At autopsy 500 cc of urine was found in the bladder. Only liver sections

were taken for diagnosis - these were diagnosed positive by Drs. Torres and Rocha Lima on 19th.

Pedro Lopes, Alagoas, in Rio one year, entered hospital militar for Rx for scabies on May 4th or 5th, leaving on the 16th for Santa Cruz, 40 or 50 M. but in Federal District. Reentered hospital with high fever on May 18th. Died on May 20th. Symptoms suspicious of yellow fever. Anuria reported. Bladder empty at autopsy. Dr. Fraga saw autopsy and did not believe case to be y.f. Liver red and solid. Peryassu cut liver at autopsy and was not convinced of y.f. Liver diagnosed positive by Drs. Torres, Oswaldo Cruz and Bomfim (militar) but kidney is not typical of yellow fever.

#### Discussion.

1. These two soldiers are both from northern states where yellow fever has in the past been endemic.

2. They are from different branches of the service and no possible point of contact such as sleeping in the same barracks has been established.

3. P.N. did not suffer from anuria and 500 cc of urine were reported at autopsy.

4. P.L. had anuria but the kidney is not that of y.f. (Rocha Lima stresses kidney lesions and BW Crowell considered them more important than those of the liver.

5. Both cases must have been infected in the federal district. This means that one or more previous cases must have occurred. P.L. could only have been infected in the military hospital. No other cases have occurred in the hospital nor do the records reveal suspect cases.

6. Analysis of recent mortality records shows no increase which might be attributed to an undiagnosed epidemic.

The epidemiology of these cases does not clearly fit the picture of yellow fever.

May 25. No new cases have developed. One suspect case proved to be lobar pneumonia confirmed by autopsy. Dr. Connor notifies that Smith goes to Fortaleza. Muench to Parahyba. Reports that Smith believes that case in Parahyba was positive. Bases belief on microscopic appearances at time of autopsy. Visit by Dr. Guedes Pereira.

Saturday 26. Visit nurses home with Dr. Agge<sup>o</sup> who is to make estimate of cost of changes wanted. Dr. Mattos shows room available for deposit of

heavy objects. Dr. Aggeo states that military hospital will again be fumigated.

"A Manha" carries scare story of 60? cases of yellow fever in Rio. Dr. Fraga reports nothing new.

In considering the Sergipe and other northern cases, it would appear that the difficulty of recognition came from the small percent of foreigners in the region and an underestimation of the previous endemicity of the disease. It is quite possible that these two factors have been responsible for giving an epidemiology different from that of other fields with which Dr. Connor was familiar.

May 27. Home all day except to Post office in PM with Mrs. Muench.

Monday May 28. No new developments Rio. Wire Connor to come to Rio at request of Dr. Fraga.

Tuesday May 29. Dr. Guedes Pereira lunches with me at 125 Bolivar. Dr. Guedes is director of P.R. in state of Parahyba. Still no new developments in Rio. Suspect case in German at Aracaju now in 5th day reported to Dr. Fraga by the maritime service. Dr. Fraga has ordered Argea to make our transformations at new office in Nurses Residence. See "Aurora" with Dr. Jansen de Mello and Susa. Play poor.

Wednesday May 30. Meet Miss Bertha Lutz, Feminista. Connor to leave Recife for Rio tomorrow. Wire to R.J.S. - Gov. Lemartine and C. Dantas to lunch.

Thur. May 31. Authorize work at Nurses Home done by Argea.

Dr. Lessa tells me of suspect yf case in Portuguese who became ill Monday, May 28. Dr. Alberto Cunha confirms and says case is now at Sao Sebastiao Hospital. Dr. Cunha says case is from Praca Republica but that patient slept in Rua Sao Pedro. Dr. Cunha considers clinically yf. Later: Visited Sao Sebastiao with Dr. A de Cunha. Surely a beautiful location for an isolation hospital. Patient, Jose Teixeira, by name, 19 years of age, Portuguese worked in candy factory in Praca da Republica. After he became ill he went to sleep (one night at 257 Sao Pedro St. Had not newspaper articles appeared recently calling attention to possibility of yf in Rio the doctor who notified this case would not have considered it yf. but an acute severe case of gripe according to his own statement. When he saw the patient he was semi delirious, with "walled" eyes and continuously mumbling and calling "mamae" etc.

Dr. da Cunha says <sup>710</sup> facial expression is characteristic. Examination was by electric light and icterus could not be well observed. Fever reported as 38<sup>5</sup> axillary. Respiration very rapid and not too deep. Pillow and sheet soiled with some black clotted material and with stains of red blood. Eyes did not appear greatly congested. Teeth in poor condition and gums very congested but no hemorrhage on pressure. Dr. da Cunha examined lungs very superficially and insisted they are clear. Dr. da Cunha demonstrates the marked sensitiveness of the stomach region. Examination of urine (catheterized) was recorded as "alb. tracos accentusdos." In conclusion Dr. da Cunha insists this case presents the typical signs of yf. The similarity however of this patient to certain patients seen during the flu epidemic of 1918 is marked.

Dr. Henrique Aragao had seen this case and drawn blood before we arrived. I noted, in addition to the site of venepuncture, certain dark black deep subcutaneous spots over the region of both biceps. Could these be deep hemorrhages as found in yf?

June 1, 1928. Yesterday Dr. Washington Luiz went home after only a week in the Casa da Saude, Pedro Ernesto. Again we can use the Avenida Mem da Sa. A few days ago I spoke to one of the policemen who prevented traffic from approaching the hospital. "Boa tarde" "Boa tarde" "How much longer must we go the back streets which are poorly paved?" "They say the Presidente will go home Saturday." "Very well. But you know when I had my appendix taken out, no streets were blocked off nor soldiers stationed to maintain silence in the neighborhood! How do you explain the difference?" "Mas o dontor operou - se aqui em Rio de Janeiro?" "No in Baltimore." "Ah, that explains it." And he gave me to understand that were I to be operated here the whole city would be closed! Such delightful technique!

Today Dr. Seidel of Sao Sebastiao told Dr. Tomaz that case of yesterday (Jose Teixeira) had died with diagnosis of "hepato nephritis." This made us feel good for a while as Dr. Seidel also suggested "grippe." However I went out to Manguinhos and saw the ~~River~~ and talked with Dr. Aragao. There is no doubt but that this case is yf. Blood was taken and has been injected into one Macacus rhesus and one Brazilian monkey. The microscopic examination made hurriedly showed cylindrical casts (calcareous) in the kidney. The liver could not be satisfactorily diagnosed

*Liver*



1928

because of previous lesions.

Together with Dr. Arago I went to see another suspect case at Sao Sebastiao, viz. Alfredo P. Reis who is a Portuguese and who became ill Monday May 28 the same day as Jose Teifeira. This case is from the Rua ~~Brazo~~<sup>Arago</sup> de Sao Felix 76 and was picked up by Dr. Lessa. He is subicteric, has vomited all night, black vomit, has only 37° temperature and is able to carry on a conversation but does not talk freely. Detailed history not obtainable. Blood taken by Dr. Arago for me. Bloods from both cases put in ice at 6:30 PM in thermos bottle. Dr. Lessa makes positive diagnosis on this case.

SARAL ✓

Impossible to see Fraga but call him late at night. He reports conference with President and Minister and says he has been given carte blanche as far as yf is concerned. I suggest possibility of Connor ? subordinate personnel to which he agrees and insists that as many good subordinate employees as possible should come. The following wires are sent:

"Rockfound NY. Two cases Aracaj Stop. Two civilian cases Rio One autopsy positive. Monkey injected. Government undertaking control. Soper."

"Rockfound Bahia If possible Connor should bring trained guarda chefes with him."

Dr. Lessa Reports other suspicious histories such as Portuguese husband and wife who died last Sunday May 27 after 7 days illness.

Alfredo Reis (entered 8:30 PM May 31 - died 4:30 AM June 2) walked into hospital because motor did not come rapidly. Anuria practically complete. 20 cc in 24 hrs and 20 cc in bladder. Albumina +++++. This case never appeared ill but a few hours before death began to show signs of lowered arterial pression. Autopsy showed typical yf and stomach and intestines full of blood.

June 1. Conference with Mrs. Parsons on yf situation. Mrs. Dawson and Mrs. Muench to dinner. Fraga has conference with President and is given "carta branca" in control. Credit of 2000 contos opened in Tribunal das Contos.

June 2. AM in office. PM visit Sao Sebastiao and take two tubes of blood from Candido Fernandes who became ill on May 30. Dr. Fraga says all guardas and servants are taken from other Services and control is starting rapidly. British consul has been advised not to permit personnel of H.M.S. "~~Cornwallis~~<sup>Conwallis</sup>" now in port to sleep ashore. Dr. Warner comes to office and I explain situation

as is to him. He says that the child of Commander Wilson had something which may have been yf. Dr. Fraga asks me to investigate and report.

Sat. PM. Two tubes blood from Candido Fernandes, Rua Barao Sao Felix 198 Portuguese, 27 took sick on May 30 with headache and fever. Has vomited and has heavy albumin in urine. Marked icterus. Taken by me.

Dr. Aragao took blood of Ant. Barb. da Silva case for me. This case probably gripe is called Antonio Barbosa da Silva (my tube marked Guinaraes) Portuguese 22, Rua Barao de S. Felix 218.

June 3 Sunday. Go to Manguinhos with Dr. H. Aragao. Special screened sections are being completed for experiments with double screens. Only one monkey has been inoculated so far viz from Jose Teixeira. Inoculation made June 1 from blood drawn May 31, patient became ill on May 28. Temp. at midday June 3 39°C which is about 5 or 6 above normal.

Visit Sao Sebastiao and find Antonio Barbosa apparently with a simple gripe. Candido Fernandes appears sicker than he did yesterday. Albumin very heavy but Candido urinated 700 cc which is hopeful. Had black vomit during the night and today is yellower than he was yesterday. The upper floor has been screened and is being fitted up with 25 beds. Patients were transferred to this section. Dr. Lintz and two or three other MD's were present.

Cadaver of suspect case arrives and proves to have been pneumonia, Dr. Fialho says.

Willson Russell 9 years old. Back from Petrop. Apr. 30. Child became ill about May 20. OK at 8 PM and 1 AM high fever 104°C delirium. Enema and cold bath. Fever down to 103 but back to 104 during morning. In the evening back to normal. Vomited during day illness and also at end of 36 hours after temp had been normal for 12 hours. Mrs. Willson described as "coffee grounds." Has not been to school nor to other side of tunnel since April 30.

Candido d Almeida, 16, Brasileira, died on May 14 after taking sick on May 9 (Palmyrao friend on hillside) Not yf symptoms. Diagnosis Typhoid with sudden cardiac collapse.

Monday June 4. Make arrangements to supply DNSP 100 lamps and probably will give 100 more if Connor does not need. Dr. Fraga insists that Alfandega can be arranged. and authorized order of large amount of supplies. I offer services of Dr. Tomaz Alves if necessary but Dr. Fraga

says he does not need. Visit Manguinhos and learn monkey's temp. is back to normal. To Sao Sebastiao and get blood (3 tubes) from Antonio de Oliveira Portuguese, 47 years of age, Travessa das Partilhas 68 who became ill yesterday June 3. Symptoms very light and may well indicate something other than yf. However, he comes from the same street where the couple died May 27. Headache, slight vomiting and fever.

Manoel Pereira de Amaral, 28, Port. entered Sunday June 3. Became ill on May 29. Blood not taken. This is typical case. (Rua Barao de S. Felix 48)

Candido Fernandes continues to urinate well  
Prognosis good.

Antonio Barbosa (Guimaraes) appears to have gripe.

First female case arrived today. Blood not taken as patient is on 6th day of illness. Nina Maria de Conceicao from Visconde de Niteroy #37. Negress. Abluminuria +. Diagnosis not made. History indefinite.

D. Harago returns to Manguinhos. Call on Ambassador Morgan and give him details of situation. Dr. Samuel Lichos calls enroute to Europe.

June 5. Dr. Connor arrives on "<sup>I</sup>Staimbe" at about 8:30 AM. Newspapers in North have reported 70 cases in Rio. Connor is now ready to consider the entire yf zone of Brazil as infected or infectible, from Santos to Manaus and from coast to Andes. Brings tissues of Parahyba case, 53 years of age, who worked two days ill and died on fourth day. Liver reported by Dr. Agge<sup>o</sup> Magalhães of Recife as not Rocha Lima picture but only excessive hemorrhage. Admits that Murchison was probably yf and that Bahia will probably have cases in next two months. Does not believe that yf in Rio is limited to present discovered focus. Suggests possibility of other than Aedes carrying or other species of Aedes, possibility of animal reservoir, possibility of repeated infections in the same individual and also the possibility of virus becoming attaquated to indigenous population but not to foreign stocks the possibility of Rio being a permanent endemic center and the impossibility of Rio never having cases in past 20 years. We call on Fraga and partially discuss the situation and agree to present ideas in writing. Connor would like to have Rio and make yf in Brazil one unified project.

Request Dr. Warner to keep tab on the Wilson menage and to let me know about Elizabeth Babcock.

Connor and I visit Manguinhos and find monkey with normal temperature. Dr. Aragao has ordered one dozen monkeys from Hamburg on my authorization. We go to Sao Sebastiao and find that Nina Maria de Conceicao had pneumonia and not yf. Two other women are in hospital as suspects.

Hospital notes June 5.

Manuel Goncalves Brasileiro 28 Rua dos Cajuerios 12 took sick June 4th 2 AM. Awakened by headache, fever, has not vomited. Connor considers very suspicious because of hour of onset. Two tubes of blood taken. Candido Fernandes better also Manoel Pereira.

Francisco Curte Italiano Albumin++++. Became ill June 7 AM June 1. (June 7th this case considered typical by Dr. Connor.)

(20 cc whole blood 10 cc serum seal in ampules. For Africa on Curte, Candido Fernandes and Manoel Pereira. Probably also worth while to get serum for treatment purposes from these men.)

June 6. Blood from Candido Fernandes Manoel Goncalves, and Antonio Oliveira sent to NY. together with tissues Jose Teixura and Alfredo Reis. on W. World.

Anna Jose da Silva, Portuguesa 27  
Trav das Partilhas #80 c/l.  
Took sick at 5 AM June 5th. Fever Back ache.  
Blood taken at 5 PM June 6.

June 7. Joao Bittar, Syrian, 15 years works for tailor. Entered hospital 10 AM June 7. Blood taken 5 PM. Rua Itapiru 49, casa 6. 9 years in Brazil. Took sick June 4 at 10 PM. Had contact Thursday May 31 with tailor shop in Rua Baron Sao Felix. Melana today June 7 subicteric sclerae. Declared positive by Dr. MEC. Two tubes blood taken.

June 8. Maria Jose da Conceicao Rua Itapirn 49 Two days sick. Breathes like pneumonia? Blood taken. Lives next door to Joao Bittar. June 9 looks like pneumonia. June 10 Gives history of vomiting "red" and complains of gastric pain. June 11 is pregnant, etc.

June 10. Six new cases have come to hospital from the following addresses yesterday and today.  
9th. Joao Ventura, Rua Dua Maris (Esticao Coqueiros)  
9th. Joaquim da Silva, 23 yrs., Rua da Costa, 86, Sot., Port.  
10th. Franklin Sergio Ferreira, Deque da Caixias, #30, Villa

*Here is where I asked you about leaving out the names?  
Addresses.*

June 6. Dr. Connor and I visit Dr. Fraga but find him giving attention to many other matters especially newspaper men and so we leave to go to Manguinhos.

June 6. Visit <sup>Conference.</sup> Dr. Fraga and have long and complete ~~confidence~~ on y.f. situation. Dr. Fraga says that once the present crisis is past he himself will go to north and look over yf situation and will dedicate himself during next 24 years exclusively to the eradication of yf. Dr. Connor agrees to submit memorandum in writing. Dr. Guedes Pereira comes to office with the idea that Rio infected north. There can be no doubt of the presence of yf in Rio for some time. |||||

June 7. Conference with LaFayette da Freitas. He says yf must have been here some time as no primary cases have ever been traced. Dr. MEC explains need for unified programme for all Brazil. Memorandum prepared for Dr. Fraga but Fraga not visited. ||

Syrian, Joao Bittar, from Rua Itapicu isolated today. First civilian case recorded outside of known infected zone and his contact has been established through visit to tailor shop in Rua Barao de Sao Felix on May 31 and June 2 during daytime. Became ill 10 PM June 4.

Mrs. Sheppard and Allen to dinner. Bowe family go to Sao Paulo tomorrow.

June 8. Conference with Dr. Fraga and presentation of Dr. Connor's memorandum to Dr. Fraga asks for Tomaz *Alves*.

See memo pp 74a etc  
+ translation  
pp

June 9. Call on Mr. Dawson with Connor and see Rocha Lima. Dr. Tomaz goes to work in danger zone because survey by Fraga showed larvae after area had been covered. Tomaz says Fraga also asked us to supply him with car. Connor and Rocha Lima and I go to São Sebastião. Find new cases at hospital but not new enough to draw blood. Talk with Dr. Lessa who asks certain information in regard to past cases. Dr. Lessa asks if R.F. would take over part of city. Dr. Connor and I both tell him we think it not advisable to begin any part way measures. Cable arrives announcing sailing of Bauer and Davis and 50 monkeys. Dinner with Connor at Copacabana Hotel where fortunes are told.

Sebastião  
Quilavo

Dr. Tomaz's first day at work results in request for auto for him. Mrs. Parsons promises Ford for Dr. Alves.

June 10. Sunday AM conference with Dr. Connor. I learn that he was displeased that Fraga had been told that we would come into Rio if asked by the government. This he considers to

June 10 1928

have been unduly independent action on my part. However, I believe that Fraga should have been informed at the time as it then gave him an opportunity to choose his course without embarrassment.

The following is a copy of notes dictated by Connor as our proper course of action:

Connor

Plan on being asked to take over the work. If and when asked communicate with Connor and let DNSP continue until the arrival of Connor which will require ten days. Connor will continue districts and guardas and oilers as at present viz 320 men. No isolation of patients and no fumigation to be done by us.

320 men

Get maps of city with Peryassu's districts marked. Encourage use of our forms. Encourage investigation of Matto Grosso, Goyaz, Santos, Minas and Espirito Santo.

Include anticulex measures in discussion with Fraga.

Connor's idea of organization:

Connor

Seccao de Febre Amarella reporting directly to him with representative of Board in immediate charge with right to employ discharge and regulate the number and salaries of all employees. Funds may be advanced by the board and the Departments pro-rata share later collected. Trucking transportation and customs privileges campaign to be developed on a three year basis. Nominal salaries for our medical directors permits of reduced passenger rates on foreign boats. Connor estimates that 250 contos per month should carry the whole programme which would mean 125 for the govt on a 50-50 basis.

Davis-Bauer Laboratory - must cooperate with Brazilians and is part of Connor organization. Should remain one or two weeks here to see local situation and talk to Aragao. Get Davis and Bauer programme in writing. Davis and Bauer probably go to Recife after one or two weeks in Rio going direct with monkeys and material. Best on Costeira boat which stops in Bahia and Recife only. This gives one day in Bahia. Should leave 15 monkeys with Aragao and 5 with Aranjio in Bahia.

Davis Bauer

Get typed copy of Dr. Aragao programme if possible. Get his ideas of programme for Davis and Bauer and ask permission to Davis and Bauer to come and see him frequently during stay in Rio.

Present Davis and Bauer to Rocha Lima and maintain contact.

Dr. Wilxson goes to Bahia immediately on arrival. Sat June 16th.

Soper Connor believes our entry here will be

about Sept of latter part of August. (My trip to south should be over by middle of August.)

Muench should arrive Parahyba June 15 and Rio July 15.

Connor plans to return to USA early in Nov. but will come to Rio when I return from the Argentine. Information for weekend cable to NY will be wired in each Friday. Biao will deal directly with this office.

Connor believes organization can be made largely self supporting except for administrative charges through finances and collecting done. Idea to be presented to Fraga if considered <sup>d</sup> advisable. Requires official support.

Estimate of rotating funds

Mahia 30000,000

Sergipe 7000,000

Alagoas material at 4000 to dollar

Pernambuco increased as per wire.

Parahyba 5000,000

Natal as is

Fortaleza wait for telegram.

Requisitions every three months trying to eliminate emergency requisitions. Requisitions can come direct with right to cut if demands are excessive referring to Connor for decision. Same in regard to exceptional material.

Burke due for vacation in 1929.

End of Connor's notes.

Connor sails on Andes

Mrs. Allen and Mrs. Sheppard sail on Voltaire.

Three bloods including Joao Bittar on Voltaire with Purser. Advise mission personnel in Saude district to leave if possible. If not possible to take all precautions.

5 cases entered today as suspects including one from Sao Christobel and one from Villa Militar (Rua Duque de Caixias.) Meet Dr. Amaury de Medeiros who is going to talk to Congress about yf. Arrange to talk to him tomorrow.

June 11. Conference with Dr. Amaury to Medeiros explaining importance of African work and <sup>Size</sup> urgency of problem in Brazil. Service as unit.

Dr. Warner calls.

Dr. Peryassu calls and I cede 18 lamps leaving 40 in stock.

Find Dr. Fraga rather impressed with 5 cases of Sunday after two days of comparative freedom. He says that he himself believes only in anti-larval measures but that because of question of "morale" he must go on with fumigation and

(in city of Rio, because of yf.)

Electric flush lamps for yf inspection

and isolation. Fraga says he has refused to take more men off the other services to increase the "expurgo" group; that the newspapers are making a big fuss but that the government is behind him absolutely. Peryassu says that many physicians are being used in the service of "vigilancia," that he is a voice crying in the wilderness and that Fraga even suggested that he should strain water having larvae. Peryassu insists that only results obtained will be those obtained by his section.

Fraga agrees to get Davis monkey and cases right through the customs. ~~Fraga~~ call Dr. Fraga's attention to our joy over the Parahyba case being diagnosed liver abscess as this clears our service for the present. Visit Manguinhos and Sao Sebastiao as I have everyday since June 1st; and 3 suspects have entered of which two are positive.

June 12. Dr. Burke wires of German nun at São Christovao, Alagoas, sick five days with black vomit, icterus and albumimina. Dr. Fraga has received wire of suspect case in Bahia (Hasselmann?) who had not been out of city. Two medicos have been suspended for 30 days because of appearance of old cases i.e. more than 3 days in zone under observation. Dr. Tomaz is hard at work with car 689. Purchase Southey's History of Brazil. — To Manguinhos - nothing new. Monkeys ok. Dr. Aragao has gotten promise of four more monkeys from Sao Paulo. Three suspect cases in Sao Sebastiao.

*2 sets - one to  
have later.*

June 13. Five tubes placed in cold storage at -20°C. Examination of one tube left June 9 at -12°C. showed no breakage. Three tubes Olivio Ant. da Silva, Novello Miguel and Jacob Kaufmann and convalescent serum from Francisco Curte sent to NY care of Purser on Monargo. Called on Dr. Fraga. Nothing new. Mrs. Parsons says that the report is going round that Fraga said he would either control this outbreak of yellow fever or commit suicide. Tell Argeu not to do anything to nurses home. New focus today in Rua dos Invalidos, also report that case was at Guanabara Casa da Saude. Two soldiers reported from Nichteroy. Dr. Chagas returned yesterday bringing African virus which he received from James in London. Fraga not greatly pleased with Chagas' interviews in papers. To Manguinhos and Sao Sebastiao in afternoon.

June 14. Wild rumors are heard that Bahia is full of YF and Santos has ever so many cases



In contrast to this Dr. Connor wires that the single suspect in Bahia is probably positive. The case at Sao Christovao died. Dr. Fraga says that Dr. Chagas is to see him today about programme of studies for Oswaldo Cruz, Dr. Chagas insisting that Manguinhos must get in on the situation. Fraga is I believe disgusted with Chagas and his attitude. Confer with Dr. Amadeu Fialho on the question of pathology. He is anxious that the DNSP should have a hand in on the research side. I tell Fraga that I did not approve of statement that the C.R. had announced yellow fever extinct in Brazil. Fraga insists that what he had said was that the CR had not found any cases for so long in the north that no one living could have suspected the possibility of Rio becoming infected at the time it was. He says that Rio must have been infected about the time the first suspect case in Estancia occurred. Confer with Dr. Aragao who has now African virus secured from Marchoux (monkey tissues May 22) in Paris, and four more Macacus rhesus from Sao Paulo. Aragao says Chagas plans on opening the Oswaldo Cruz Hospital and making complete studies on yf from all possible standpoints. Two cases are reported at Sao Sebastiao but Dr. Aragao says they are not inviting. I therefore leave SS off my list today. The papers report two new suspect cases in Nichteroy, soldiers.

Called on Ambassador Morgan and found the Embassy thoroughly "Flitted." As Dr. Connor suggested I outlined the situation of yf past and present and also our relationship to the programme. Mr. Morgan seems to feel that unofficially he could not let the govt. know our attitude toward future control but that if affairs come to such a pass that I feel it necessary to submit a written memorandum, he will be glad to see that it gets directly in the Presidents hands. Personally I do not believe we should deal through diplomatic channels but since yf is Dr. Connor's responsibility I shall let him decide the procedure. Interview appears in Globo with an Hygienista Norte Americano who claims methods of Oswaldo Cruz and ~~us~~ Americanos show no essential differences.

June 15. Dr. D.B. Wilson and family arrive. Dine at 124 Bol. with Mrs. Parsons and Mrs. Muench. Visit Manguinhos and Sao Sebastiao with Dr. Wilson. Monkeys have arrived from Sao Paulo and work is beginning with African as well as Brazilian virus. Only very mild or very advanced cases to show Wilson. All Manguinhos is taking up problem of yellow fever from all stand points,

*Pathology*

*Feb*

*Evandro studies*

*but gives no info on YF.*

blood chemistry, metabolism, blood counts, etc. Some talk also of taking cases to O.C. hospital for study. Dr. Fraga goes to Nichteroy where there have been four cases among soldiers.

June 16. News arrives that Davis is bringing family. Visit Dr. Fraga who has seen interview with Journal in which reporter is told to seek information from DNSP regarding yf. situation in Rio and North Brazil and who seems very pleased with our stand on this question. Furnish DNSP with official letter giving all cases of yf in north so far this year. Wilson and family embark Itaqui for Bahia. To Sao Sebastiao with JS and Mme LeDoux and find a number of cases not previously seen. Draw blood from five cases less than seventy two hours. Dinner and bridge with Capt and Mrs. Babcock.

*News papers*

June 17. Sunday. Dr. Renato Studart lunches with us at 125 Bolivar. Visit Sao Sebastiao in afternoon and find one new case less than 24 hrs. and very suspicious.

June 18. Dr. Arazjo, Bahia, reports Francisco Rubio, Aracaju, (Uruguayan) positive, Jose Bezerra de Mello doubtful and Sister Carusa de Sao Christovao not examined. Connor advises of suspect case Sao Felipe (across bay from Sao Salvador) and considers suspect in Bahia as positive (Hedy Zollinger, first reported June 9)

To S.S. and Manguinhos. Report situation in North to Fraga. Visit Dr. Tomaz' zone and find old Seraphim Viana, one of my guarda chefes from Alagoas and Pernambuco working with him. Ten new cases today - one family of three. Dr. Aragao tells of one case becoming ill and remaining for more than an hour in a cinema of the poorer section where 500 reis admission only is charged and where some go to sleep finding it cheaper than a bed. The failure to find whole families attacked previously may indicate that the infection was occurring largely in points of reunion such as movies, work shops restaurants, etc.

*3 not 36  
See p 80 June 20  
false information whatever*

Dr. Aragao very hopeful of monkey inoculation for first time. Has monkey with high temperature inoculated from ? One case sent to Manguinhos for study.

June 19. Dr. Amaral<sup>URY</sup> de Medeiros comes to inquire about existence of statement of CM to effect that yf had been exterminated from Brasil. I give

him the details of the conference of Dr. Fraga, Barros Barretto, Connor, Burke and Soper in Bahia. Jan 19 and also annual report of Connor's in both of which the programme was outlined of continuing the services in Bahia, Recife, Natal and Parahyba until July at which time a full survey of the situation would be made and a programme resolved upon in another conference with Dr. Fraga in Rio. At this conference Dr. Connor said that at all events the control of Bahia would be continued until Jan 1, 1929. Dr. Amaury says that Connor said in conversation with Fraga that there was no danger of Rio becoming infected. I replied to this that no one ignorant of the number of steps now could believe in the possibility of the infection of Rio after a period of 20 years. That such a statement of Connor's must have been based on past experience of Rio itself during periods when Bahia was known to have been infected.

Notify Dr. J. Barros Barretto of Francisco Rubio of Aracaju as positive case and Jose Bezerra de Mello doubtful.

At 2:30 PM Dr. H Aragao called up to say that monkey #8 injected with blood from Jacob Kauffmann and Novello Miguel had collapsed and was to die. Dr. Rocha Lima called and went to Manguinhos with me. Autopsy revealed liver yellow and fatty and hurried microscopic sections were examined by Dr. Torres and called positive and very similar to those of monkey killed with African virus, the liver of which Dr. Chagas brought from Paris last week. Russell and Connor notified by wire. Liver to be frozen and also tissues in forms were secured. (Dr. Chagas asked how the CR explain the entrance of yf into Rio. It tell him we do not attempt to explain it not having the necessary information on which to base an explanation. He seemed quite surprised to learn that the CR still has service in the North of Brazil!)

HA gets virus in  
monkey

Later in the evening Dr. HA says Macacus cynomolgus probably from Japan is expected to die during the night.

June 20. Called O.C.I at 8:30 AM and find Aragao asleep. He lay down at 5 AM. At 11 AM start to SS. Find one new suspect case. (Positive diagnosis are being made with great circumspection. Man of family of 3 noted under 6-18 came to autopsy today. Clinically the case was yf with icterus, black vomit and anuria. I saw the body just before autopsy. It was very icteric and there were signs of hemorrhages into dependent portions of subcutaneous tissues, scrotum, etc. Dr. Fialho said this was the first body showing these characteristic hemorrhages he had seen.

3 suspects yf in  
same family, all  
indian - all fatal

However, when the first incision was made through the subcutaneous fat, he said the case was not yellow fever but malaria. And it proved to be. Blood slides from the wife and child were both positive for malignant tertian. Discussing this question of diagnosis today with various physicians, the idea seems to be gaining ground that the clinical diagnosis of even typical cases is at times impossible.) (Mrs. Parsons reports that a couple of her nurses say that many DSNP doctors are beginning to think that yf may have been in Rio for a long time.)

They also died.

blood

From S.S. to Manguinhos. M. cynomalogus (Aragaos #7) died at 9 PM yesterday; injected with ~~bell~~ from Novello Miguel and Jacob Kauffmann on June 12 this big savage monkey showed no signs of infection until June 18 when loss of appetite and high temperature were noted. This temperature dropped by crisis on 19th and monkey collapsed and died. Autopsy revealed a more typical gross pathology with intestinal hemorrhages than did M.r. #8. The liver sections are full of fat and the mid-zone necrosis is very typical. Liver for freezing and liver tissue in ~~10%~~ 10% formal were secured for sending to NY.

Citrated blood from the following cases was forwarded to NY on ice by the American Legion today: (left Out by Jane)

Also two ampules with convalescent serum from Candido Fernandes and Ant. Pereira de Amaral, two sealed tubes with frozen liver from monkeys 7 and 8 and bottles with tissues in 10% Formal from monkeys 7 and 8. Miss McK. also goes.

June 21. Dr. Fraga says that 6 cases occurred during the first week, 16 during the 2nd week and 14 during the third week. However the failure to have more cases during the 3rd week than during the second week may not be significant of a real let up. It may be that only the 4th or even 5th weeks will show.

Capt. Warner went to Manguinhos and to S.S. with me. Discuss vaccine for yf with Arago. Lutz also goes to S.S.

June 22. Return to C F's annual report and find that he has outlined the question of whether the CR had claimed yellow fever extinguished or not. This report appeared probably early in March as I sent translations of parts of it to M.Y. March 22nd. (Actually published in Journal do Commercio Feb 18, 1928). This report together with Dr. Connor's report which has now been published in the arquivos da Hygiene #3 show clearly that we were in the waiting stage when the Rio situation blew up.

To Manguinhos, one monkey with African virus has high temperature.

To S.S. and all quiet and peaceful. (One man comes in walking as we were leaving. He insists that he is not sick but was wanting two days leave from work and asked for it on the basis of being sick. The company called a doctor <sup>and</sup> and he was sent right out to S.S.) Dinner at Capt. Warner's, Commanders Atkins and Wilson present. Com. Wilson says that Walter Reed had been ordered to Minnesota but that he found the expense of winter underwear and overcoats for his family too great and hence asked for and secured transfer to Cuba where the yf investigations were carried out.

Wire from MEC says that both Dr. <sup>A.V.</sup>BB and Dr. Aganju wish the laboratory for Bahia and that he has agreed to install it there. I advise Dr. Fraga that Dr. Tomaz has a swollen ankle and probably cannot long continue and also of plans to install lab. in Bahia. In conversation with Am. Morgan I let it be known that probably the R.F. will either increase the scope of its yf control or retire entirely. Wilson's arrive in Parahyba.

June 23. Dr. Tomaz believes that article of DRQ.F. should be called to the attention of the daily press. We start to Journal but find Chateau - <sup>BRIAND</sup> ~~BRIAND~~ out and I resolve to give copies of both reports (Connor and Fraga) to Ambassador Morgan instead which I do in the afternoon. Jule and I go to SS in the afternoon. Bleed two patients. Do not see Dr. Fraga today. (Vespera de ~~João~~ João - balloons etc.)

June 24. Sunday. To S.S. with Aragao who feels that epidemic is on the wane. No cases bled.

June 25. Dr. Warner predicts cessation of present epidemic with flare up in the summer. Drs. Bauer and Davis arrive on Van Dyck with 48 M rhesus. Dr. H Aragao meets boat. Monkeys taken to Oswaldo Cruz. Bauer says Stokes probably infected from autopsy on monkey still in infective stage which had died accidentally as it was being bled from heart. Stokes had been bitten on hand by monkey earlier in the day but performed autopsy without gloves. Virus of yf remains infective in mosquitoes during so called period of extrinsic incubation. Dr. Aragao authorized to begin using monkeys right away. Call on Dr. Chagas and then to autopsy at Manguinhos Hospital. Case proves typical. Dr. Chagas when approached

on the subject of his interview said that this interview was given at the request of and based on information given by Dr. Fraga. I tell Chagas that we do not care for any newspaper discussion but that he can get the actual data for clear judgement from the Introduction to the Annual Report and from the Journal of Commerce of Feb. 18, 1928. Chagas says that Vasconcellos and others are attacking the C.R. only to attack him since it was he who permitted the CR to begin work in Brazil. He says that all the north of Brazil was having yellow fever when the CR came in and that it soon practically disappeared. Drs. D and B call on Fraga whom I invite to dine but who neither accepts nor refuses definitely.

June 26. To S.S. in AM with Dr. D and B. <sup>avis</sup> Dr Lins shows us over the available cases. B. says symptoms of yf here are same as those of yf in Africa. Wire from MEC says that BB in Bahia has offered new building for laboratory and that he has accepted; screening to begin at once. Davis and Bauer suggest that screening be delayed until their screen can be used. Wire sent to that effect. MEC reports suspect case in interior of Pernambuco between Bello Jardim and Pesqueira. D.C.F. notified of this case and also of absence of cases all last week. C.F. says that Cardoso in Recife whom Connor wants ~~is~~ going to Espirito Santo - that all he wants is double salary and that he cannot be spared at the present time. Dr. Bauer suggests to Dr. Aragao the need for trying as many sera as possible on different monkeys. Five were already injected last night by Aragao. The final outline ~~move~~ to Aragao is that he shall do this work using our monkeys and shall give us the results. Results to be published by Aragao. We are to furnish monkeys now but must have viruses and convalescent serum em grande quantidade!

June 27. Drs. D <sup>avis</sup> and B <sup>avis</sup> go to Manguinhos in PM. Take serum of Winchelli for injection in monkey #30. Dr. B. after seeing cases and slides considers yf of Africa and Brasil the same. Three cases arriving from Bahia on the "Para." have been sent to S.S. as suspects. They all arrived in Saõ Salvador from Ilheus June 21 remaining at the Pensao Velloso (Calçada) until Sunday (6-24) when they embarked for Rio. The first took sick on Saturday (6-23) with symptoms of grippe. Dr. Bauer injects monkey #30 himself for "sorte." Dr. Rocha Lima and Dr. Aragao and families dine at 125 Brløvar with Dr. Davis and Bauer.

Bolivar